



The Daedalean Semper Discens

*Monthly Aerospace Education Publication of the
Connecticut Wing of the Civil Air Patrol*

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SCHEDULE

07 SEP-Wings Over Westerly
15 SEP-Simsbury Fly-in
21 SEP-CTWG pilots meeting at MMK
21-22 SEP-CTWG Squadron Leadership Course
28 SEP-Cadet Ball-USCG Academy
05-06 SEP-CTWG Corporate Leadership Course
09-10 OCT-CTWG Unit Commander's Course
19 OCT-CTWG Field Trip-Intrepid Museum
26-27 OCT-TLC Course-Camp Niantic

SQUADRON AEROSPACE NEWS

143rd Composite Squadron Waterbury

Three cadets from Waterbury attended glider programs this summer. C/CMSgt Alec Beliveau attended the 17-25 session in Vermont and soloed. C/CMSgt Alan Hinkson and Cadet Moore participated in an earlier session. See Cadet Tom Ray's article in this issue for details of the Academy program.

In July, six cadets flew on orientation flights with Capt Dan Hanle: C/TSgt Xavier Jeffries, C/SSgt Steven Garofalo, and C/MSgt Sarah Eriksson. C/CMSgt Alec Beliveau, C/SSgt Adam Young and C/Ann Ryan Brown.

New Fairfield High School Cadet Squadron

Brandon Roe, a first year glider student participant received his Pre-Solo Wings at the Springfield, Vermont Glider Academy.

399th Composite Squadron-Danbury

Scott Pardon attended the NER Glider Academy and successfully soloed.

New Fairfield Independence Day Parade

The 143rd, New Fairfield Cadet Squadron, and the Northwest Hills Composite Squadron marched in the New Fairfield Independence Day Parade.

Silver City Cadet Squadron-Meriden

On July 26th, members of Silver City took a tour of the Sikorsky Aircraft plant in Stratford Connecticut. Cadet Dylan LaVoie and Senior member Robert McGuire were treated to a tour of the plant by Sikorsky Engineer Mike Gamauf. They toured the machining shops for components, transmissions, and blades, and the assembly line where various customer ships were being assembled. Various 60 Series helicopters such as the Army UH-60 Blackhawk and Navy SH-60 Seahawk were in different stages of construction. The squadron was also treated to a visit to the Sikorsky Heritage Center which contains historical documents and memorabilia associated with Igor I. Sikorsky, his life and his careers in aviation, and the Sikorsky Aircraft Corporation and Igor Sikorsky's office which is maintained as a memorial to the founder and original owner of the company.

Capt Constance J Castillo received an Instrument Pilot rating. Training provided by CFII Capt Robert J. McGuire, Jr.

SM Michael Mikula received a Commercial Pilot Rating. Training provided by CFI SM Robert W Macniak

CFI SM Robert W Macniak re-solo'd C/2dLt Sara A Rosborough and has been giving flight instruction to C/SrA Dylan J. LaVoie, C/2d Lt Drew F. Groszof, C/ Bennet C. Sloan, and cadet Zachariah T. Brandes-Powell.

SM Robert W Macniak is working on the multi-engine rating.

Capt Robert J McGuire Jr is working on a Commercial Glider rating.

A guest member, Capt Michael Radnovich from the Georgia wing spent the summer with the Silver City cadet Squadron giving weekly Rocketry classes to the cadet members. Many cadets attending completed parts of the rocketry badge qualification and some meetings qualified for AEX credit. The culmination of the summer program was a special afternoon with multiple launches at a local facility on August 26

On August 30th, members of Silver City will tour the Bradley TRACON center and Bradley tower.

CTWG INTREPID FIELD TRIP **SCHEDULED**

The Wing has scheduled a visit to the Intrepid Sea, Air, and Space Museum for 19 October. The museum is located at Pier 86 in Manhattan. Parking is two blocks away and we plan to meet at 0930. Squadrons will be responsible for their own transportation.

Uniform of the day is Class B blues for cadets and senior members or corporate uniforms for senior members.

The price is \$19 for cadets and \$23.50 for senior members, paid in advance by October 1st.

Bring your own lunch or plan on purchasing food on board or suffering hunger cramps.

The tour includes entry to the *USS Intrepid*, *USS Growler*, and Space Shuttle *Enterprise*.

The *Intrepid* is a WWII Essex class aircraft carrier which fought at Leyte Gulf and Okinawa. After

the war, it served as an attack carrier and an anti-submarine carrier. In 1965, she retrieved the Gemini Space Craft *Molly Brown* and Lt. Cmdr. John Young and Major Gus Grissom after a successful three orbit mission and controlled re-entry. Between 1966 and 1969, she made three Vietnam deployments. The *Intrepid* opened as a museum in 1982 and has recently undergone a major renovation. A number of aircraft are on display including a Concorde and a wide range of exhibits are ranged throughout various compartments of the ship.



Intrepid Sea, Air and Space Museum as viewed from and aircraft transiting Hudson River's "Tunnel of Terror."

USS Growler is a diesel submarine of the Grayback Class and designed to launch the Chance Vought Regulus cruise missile. The ticket allows entry to the submarine.



Details of the Growler's missile hangar and Regulus missile.

The *Enterprise* is the first space shuttle designed for atmospheric tests so it never flew in space. Formerly displayed at the National Air and Space Museum, She was replaced by *Voyager*, and

transferred to the *Intrepid*.



*Enterprise at
Cape
Canaveral*

For further information, contact Maj Dammers, the project officer, for additional details. His email is art327@cox.net.

The Intrepid web address is www.intrepidmuseum.org

2013 CTWG ENCAMPMENT



Evening Encampment Formation

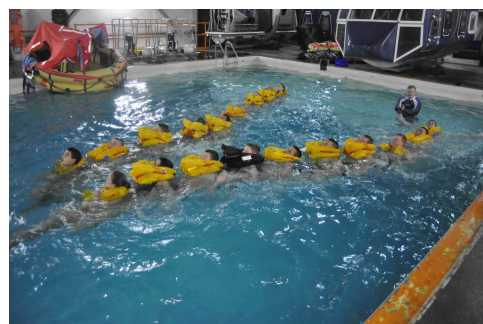
The Connecticut 2013 Encampment has been highly praised by both cadet participants, parents, and visitors. The encampment symbol was The Phoenix, the mythical bird which regenerates itself from the ashes of its predecessor. Under the able leadership of Maj James Ridley and C/LtCol Stephanie Hyatt, 93 cadets from five states completed the full program.

The program followed the regulation standards and included training in all four disciplines which cadets must master for promotion: leadership, character development, aerospace education, physical training.

Special events included water survival training, a tour of the Connecticut National Guard's 1109th Theatre Aviation Sustainment Maintenance Group (TASMG), and the Stone's Ranch Confidence Course.

Special guest speakers included LtCol Scott Hubert, commander of the ROTC detachment at the University of Massachusetts, Amherst, LtCol Reed Foster, Rhode Island National Guard and American Airlines, and CTWG LtCols Lawrence Kinch (USAF RET'D), Richard Levitt (USAR),

Carl Stidsen, (USAF, RET'D) and John deAndrade, USAF Academy and Delta Airlines.



*Cadets learn how
to enter a life raft
at Survival
Systems USA.*

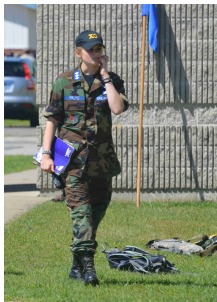
*Cadets Johnstone and
Donato learn about the
Blackhawk helicopter at
the 1109th TAMSG.*





Sgt VanDevander, a triple threat staffer worked Admin and subbed as a flight officer and kitchen worker when the call

came that he was needed.



Sgt Trotochaud works his way across the National Guard's "Bridge of San Luis Rey."



The encampment concluded with a with an address by Brigadier General (Ret) Shepard "Doc" Stone Associate Clinical Professor at Yale University School of Medicine and a "pass in review" led by the Connecticut National Guard's 102nd Army Band.



Gulf Flight on Parade

NEW ENGLAND REGION GLIDER

ACADEMY

BY

C/SMSGt Thomas Ray

The Academy opened on 03 August at Hartness State Airport in Springfield, Vt. And ran to 11 August. Upon arrival, we we were shown our sleeping quarters, stowed our gear, and went outside to assist in assembling the gliders.

We had 11 cadets, five from Connecticut. During the month long session of four academies, cadets from Massachusetts, Vermont, North Carolina, Virginia, Washington DC, Kentucky, New Hampshire, Rhode Island, Oklahoma, Pennsylvania, and New Jersey also attended.

The cadets from Connecticut were Alan Hinkson and C/CMSGt Devin Moore, both from Waterbury. Moore soloed and Hinkson earn the Pre-Solo Wings. Liz Bell was the first to solo and was also the Academy Cadet Commander. Ben Rucquoi from Stratford was unable to solo due to two days of bad weather but he has won a scholarship at the Greater Boston Soaring Club in Sterling, Massachusetts.



The glider inventory included two LET L-23 Super Blanik, just arrived from the USAF Academy and two Schweizer 2-33s. The Super Blaniks are all metal and the Schweizers have metal wings but a fabric covered fuselage.

The local glider club also provided support by allowing us to use their 2-33.

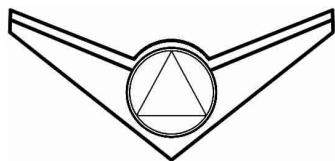


A LET L-23 prepared for takeoff.

I flew a 2-33 for most of my 17 flights. Tow aircraft were Cessna 182 Skylanes, a Maule MT-7-235, and a Piper PA-25 Pawnee which was supplied by the local glider club.

We would wake up at 6:00AM eat breakfast then go to a weather briefing. After the briefing, we pre-flighted our gliders. We would fly from around 0800 to around 1700, tie down the aircraft. Lunch was sandwiches served on the flight line and dinners included soups and barbeques. After dinner, we had free time for games.

I met the CAP Pre-Solo requirement while at the academy. Essentially, this meant that I met the age and attendance requirements, received the training required by the Federal Aviation Administration, and demonstrated to an onboard CAP Instructor Pilot that I was competent to fly the glider without assistance.



Pre-Solo Wings

The Daedalean wishes to thank Col Kenneth Chapman, Mr. Richard Hinkson, Maj Tim McCandless, Capt Ken Fortes, and John Williams, glider instructor for the additional information supplied to the glider academy reports in this edition.

CAP NATIONAL CONFERENCE-DENVER

Three CTWG members attended the national meeting in Denver, Colorado last week. Col Kenneth Chapman, CTWG Commander, represented us at the meeting of the National Board. LtCol Richard Levitt attended a variety of seminars focusing on his duties and interests in CAP.

LtCol Rocketto, who arrived late due to his duties as Deputy Commander at the CTWG Encampment, attended only three seminars. As Squadron PDO, he found the CAP Awards and Promotions briefing especially useful. Rocketto also attended the National Operations Center meeting which presented information about recent achievements and future plans and a seminar on how to plan a successful wing conference and engaged in informal discussions with the national aerospace education staff.

Both Chapman and Rocketto were honored at the national recognition ceremony. Col Chapman was the recipient of the John V. Sorenson Cadet Program Officer of the Year plaque for his implementation of training courses, fostering cadet involvement in squadron, wing, and national activities, and establishing a middle school squadron. His work with the New Fairfield school squadrons have expanded the Connecticut cadet corps and provided valuable outreach into the community.



Col Chapman receiving his plaque from Maj Gen Charles Carr, CAP National Commander.

Rocketto received the Frank G. Brewer Memorial Aerospace Award in the Senior Member Category. He was cited for promoting field trips, professional development of aerospace officers, outreach programs, and the production of both weekly squadron and monthly wing aerospace publications.



General Carr and Mr. Rob Brewer join in the presentation to LtCol Rocketto.

A CHANCE MEETING- VALKYRIE CADET SQUADRON DENVER, COLORADO



While attending CAP's annual meeting in Denver, LtCol Rocketto visited the Wings Over the Rockies Aerospace Museum on the site of the former Lowry AFB. He noted a group of cadets carrying tools and materials into a work area so he introduced himself and found that they were the Valkyrie Cadet Squadron and the Museum was their headquarters.

The cadets, their aerospace officer, Lt Robert Miller, and their mentor, Mr. James Russell welcomed Rocketto and explained the project on which they were engaged.

The Valkyries are serious rocket builders. Since the turn of the century they have been constructing and launching LARGE scratch-built rockets designated Vision.

The first of their vehicles was a stood over 12 feet tall, weighed in at 31.3 pounds and was a semi-scale version of a Delta II/III rocket. It was propelled by 24 Class C and G motors: four sustainers, four secondaries, seven main motors, and nine outboard motors.

Vision II was a 10 foot tall, 65 pound three stage rocket each stage of which engines produced red, white, or blue smoke. The payload was a video and sound system and systems were managed by an on-board electronic system which operated the recorders, altimeter, GPS system, accelerometers, and radio transmitter. The rocket reached a height of approximately 1600 feet with a top speed of around 160 mph. The planned height of 7,000 feet was not reached when the air start motors failed to ignite.

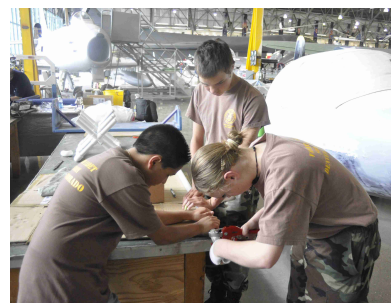
Both the Vision I and the Vision II launch videos are available on *youtube*.

The current project is Valkyrie Vision III. A small group of cadets, C/MSgt Rileigh Casecolt, A/A1C Colleen O'Neil, C/Amn Samuel Robinson and Sasha Witvliet, and C/AB Ruben Arredondo worked with Mr. Russell and Lt Miller worked for six hours, cutting tubing and prepping surfaces for the application of adhesives.



Mr. Miller checks a spec sheet while two cadets work on surface preparations.

Cadets cutting a tubing to length



The Valkyries and Civil Air Patrol are fortunate to have volunteer mentors such as Mr. Miller, sponsors such as the Wings Over the Rockies Air Museum and the Colorado Rocketry Association

of Space Hobbyists who contribute so much to the growth of our cadets and the success of our programs. and the Pober and Acro-Sport series and has flown about 170 different marks of amateur built aircraft.

AEROSPACE CURRENT EVENTS

Paul Poberezny-An Aviation Giant 1921-2013



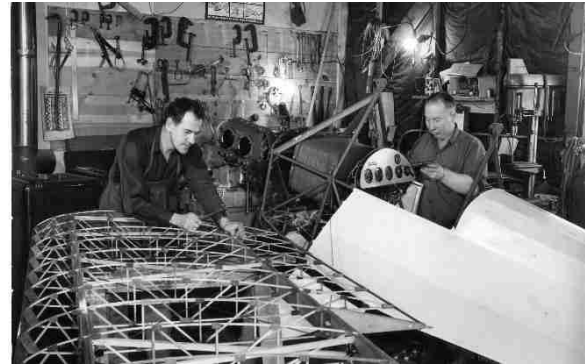
(EAA photo)

With 30,000 hours logged, Paul Poberezny flew west on 22 August after an eight decade commitment to the cause of aviation.

Poberezny's initial involvement with aircraft occurred as a 12 year old when fogged caused an aircraft to land in a nearby field. Young Paul studied the plane and the the nascent idea of a future in aviation developed.

A high school teacher gave him a WACO primary glider for restoration with the proviso that he learn to fly. Paul rebuilt the aircraft and taught himself how to control it, and withing a year, soloed. Best known as the founder of the Experimental Aircraft Association, an organization with some 1,000 chapters and almost 200,000 members, Poberezny was a thirty year veteran of the USAF, retiring from the Wisconsin Air National Guard as a lieutenant colonel.

He is responsible for the design of a number of home-built aircraft designs including the Baby Ace



In this 1954 photo, Paul Poberezny (left) and Carl Walters build a prototype of a kit airplane. (Journal Sentinel file photo)

The weeklong EAA AirVenture convention and airshow, which he started held annually at Wittman Field, Oshkosh, Wisconsin, attracts some half million participants and spectators and 10,000 aircraft!

In 1999, Poberezny was inducted into the National Aviation Hall of Fame and in 2002, the National Aviation Association presented him with the Wright Brothers Memorial Trophy. This award is presented annually to a living individual for significant public service of enduring value to aviation in the United States. Some of its past recipients include Neil A. Armstrong (2001), Igor I. Sikorsky (1967) and Charles A. Lindbergh (1949).

Other honors include the Frank G. Brewer Award, NASA's Distinguished Service Medal, the Gold Air Medal of the *Federation Aeronautique International*, and the Billy Mitchell Award for Aviation Achievement.

For over a half century, Paul Poberezny guided the EAA, encouraged amateur builders of aircraft, and contributed his expertise, enthusiasm, and energy to the cause of aviation.

We are diminished.

Classified NRO Satellite Launched

The United Launch Alliance, a joint venture of

Boeing and Lockheed-Martin launched a Delta 4 Heavy Rocket for the National Reconnaissance Office (NRO) on 28 August. The NRO is the government agency charged with design, construction, and operation of the US intelligence gathering satellites.

The Boeing Delta 4 Heavy is the largest rocket ever launched from Vandenberg, some 235 feet in length and weighs 1.6 million pounds. The probable payload is a KH-11 optical imaging satellite, theoretically capable of a six inch resolution under favorable atmospheric conditions.

Vandenberg AFB is located on the coast northwest of Los Angeles. Its location enables it to put payloads into polar orbits which are preferable for intelligence satellites.



NROL-65 lifts off from Vandenberg AFB. (ULA Photo)

News from the Drone Front

Drone Crashes in Crowd

The Great Bull Run is a Virginia event in which the main events are four bull runs in which participants try to avoid or outrace 24 bulls which are released in pursuit!

The drone, about four feet in diameter with several arms attached to a central core was hovering above the crowd when it fell into a group of some dozen spectators. No one was seriously hurt and the minor injuries were treated on site. No one has taken responsibility for ownership or operation of the drone.

Drone Hunts Mosquito Breeding Pools

A battery powered, \$65,000 UAV will be used by the Florida Keys Mosquito Control District to search for the shallow pools in the mangrove swamps in which the marsh mosquito breeds.

The Maveric drone, which weighs in at about 2.5 pounds and has a 2.5 foot wingspan is equipped with a thermal imaging system and has a 70 minute duration of flight which is good for a 30 mile range.

Predator Used to Survey Rim Fire

The forces fighting California's 300 square mile Rim Fire are now using a General Atomics MQ-1 Predator which allow the Incident Commanders to monitor the direction in which the fire is moving and detect new outbreaks.



RQ-1 Predator

The aircraft is being flown by the 163rd Wing of the California National Guard based at March Air Reserve Base. The drone is escorted by a manned aircraft when outside the fire area,

WING AEROSPACE EDUCATION OFFICER POSITION OPEN

The position of External Aerospace Education Officer is open to a qualified applicant. The applicant will be expected to complete duties assigned by the Wing Aerospace Education Officer: The candidate must

- Complete the Yeager Award or be working on completing it.
- Enroll in the AEO 215 Specialty Track or have completed it.

Duties may include the following:

- Direct the external aerospace education program.
- Recruit Aerospace Education Members (AEM) into CAP.

- Support AEMs with visits to their classrooms and by conducting aerospace education activities.
- Encourage AEMs to participate in the voluntary Aerospace Education Excellence Program.
- Encourage AEMs and other CAP teacher members to participate in the Fly-a-Teacher Program.
- Promote and assist with aerospace education projects such as workshops and seminars.
- Promote CAP aerospace education programs and educational materials in schools.
- Promote CAP's external AE mission to the regular uniformed CAP members.
- Establish and maintain contact with educational agencies promoting CAP AE products.
- Present AE lessons and activities in many different educational settings.

Contact LtCol Stephen M. Rocketto, Director of Aerospace Education, CTWG (srocketto@aquilasys.com) if you have questions.

AVIATION HISTORY

01 SEP, 1924-The U.S. Navy opens a parachute school at Lakehurst, NJ.

02 SEP, 1952-Boeing announces plans to build a commercial jet liner. The Dash-80 prototype of the 707 and the C-135 flies in 1954.



Historic Dash-80 at NASM-UH

03 SEP, 1925-The dirigible U.S.S. Shenandoah, ZR-1, crashes in Ohio. The accident becomes a central issue in Billy Mitchell's charges against the military establishment and lead to his court martial.

04 SEP, 1936-Louise Thaden becomes the first woman to win the Bendix Trophy, awarded for finishing first in a transcontinental race.

05 SEP, 1934-Wiley Post, wearing a Goodrich pressure suit and flying the Lockheed Vega, *Winnie Mae*, makes his first flight into the stratosphere.



Post's Winnie Mae at NASN-UH

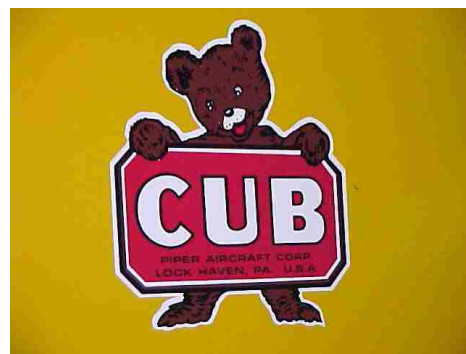
06 SEP, 1948-A DeHavilland DH.108 Swallow becomes the first British aircraft to exceed the speed of sound.

07 SEP 1909-United States Army establishes its first aerodrome at College Park, MD.

08 SEP, 1944-The first combat launch of a V-2, target Paris, is made.

09 SEP, 1978-NASA launches Viking 2 to Mars.

10 SEP, 1960-LtCol Rocketto's first solo, Piper J-3 Cub, N42592, Waterford Airport.



11 SEP, 1961-Collett Woolman, founder of Delta Airlines, goes West.



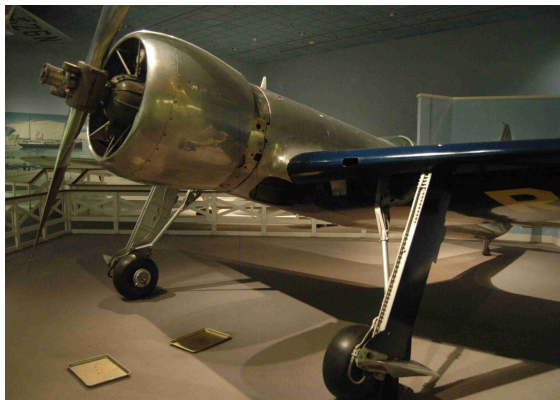
Early Delta Advertisement



X-15 mock-up on display at Dryden Flight Research Center.

12 SEP, 1938-The Guggenheim Laboratory at MIT commissions a high pressure wind tunnel.

13 SEP, 1935-Howard Hughes sets a new speed record in the revolutionary H-1.



Ultra-streamlined H-1 at NASM-Mall

14 SEP 1944-First scientific data collection flight into eye of hurricane made in Douglas A-20 Havoc. Col Floyd Wood, LtCol Harry Wexler, and Lt Frank Reckord manned the aircraft.

15 SEP, 1930-The first of several attempts to moor a blimp to the mast atop the Empire State Building fails.

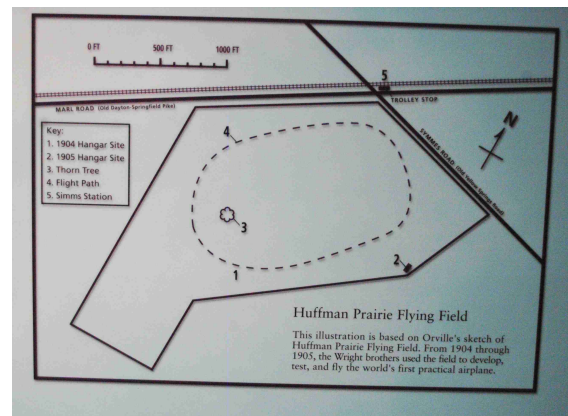
16 SEP, 1919-Off Fishers Island, NY, an aircraft establishes radio communication with a submarine for the first time.

17 SEP, 1959-A. Scott Crossfield, legendary test pilot and CAP icon, pilots North American X-15 on the first of its 199 flights at Edwards AFB.

18 Sept., 1984-Joe Kittinger lands his helium filled balloon, the *Rosie O'Grady*, in Savona, Italy. He departed from Caribou, Me, on 14 Sept. This achievement is the first balloon solo of the Atlantic Ocean.

19 SEP 1871-Orville Wright is born.

20 Sept., 1904-Wilbur Wright performs the first 360 degree turn in a heavier than air, man carrying flying machine.



21 SEP 1956-Off the south coast of Long Island, Grumman test pilot Thomas W. Attridge is testing the 20 mm cannons of an F11F-1 Tiger. While diving at 13,000 ft, he fired a short burst, went to afterburner, and increased the dive angle and speed. At 7,000 ft, the aircraft flew into its own bullets, which had been slowed by air resistance, and suffered severe damage. Attridge nursed the crippled plane back to Calverton but the engine failed about a half mile short of the runway so he

was forced to deadstick the Tiger into the woods, escaping with serious injuries.



F11F-1 on board Intrepid

22 Sept., 1938-Air service is inaugurated between Tel Aviv and Beirut by Palestine Airways using a Short Scion.

23 Sept., 1910-Jorge Chavez, a Peruvian aviator who lived his whole life in France becomes the first man to fly an aircraft over the Alps from Switzerland to Italy. Fatally injured when he crash lands his Bleriot XI, his last words, "Arriba, mas arriba! (Higher, ever higher!) becomes the motto of the *Fuerza Aerea del Peru*.

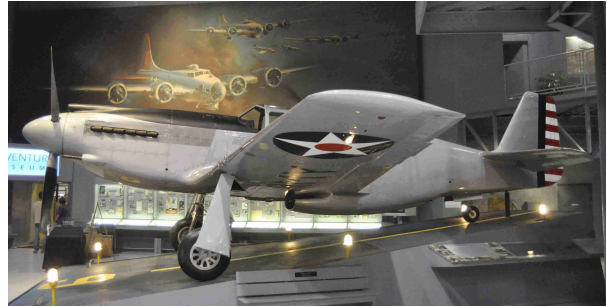
24 Sept., 1958-The first claim of victory for the heat seeking Sidewinder missile is made by the Nationalist Chinese. In air battles over the Formosa Straits, they claim their F-86s downed 10 MiGs flown by the People's Republic of China.



AIM-9 Sidewinder

25 Sept., 1929-A 10,000 mile air mail route from The Netherlands to The Netherlands East Indies is launched. Twelve days are required for the round trip.

26 Sept., 1939-First flight of the North American NA-73, soon to be immortalized at the P-51 Mustang.



XP-51 Prototype at EAA Museum, Oshkosh

27 Sept., 1965-First flight of the Vought YF-7A Corsair II.



NM ANG Corsair II

28 Sept, 1954-The People's Republic of China announce that they tested their first indigenously produced aircraft on 26 July. Best sources indicate this is the Nanchang CJ-5, a licensed built copy of the Yak 18, NATO code name Max.

29 Sept., 1918-The British dirigible R.29 bombs the German submarine U.B. 115 and then directs naval forces to perform the final destruction of the ship.

30 Sept., 1949-The Berlin Airlift officially ends.



Berlin Airlift Commemorative Douglas C-54 Skymaster framed by its latest successor, the C-17 Globemaster III, McGuire AFB, 2007